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Title

**DEVICE AND METHOD FOR GENERATING EXTENDING CODE AND FOR CHANNEL-SIGNAL SPECTRUM
EXTENSION USING EXTENDING CODE IN CODE-DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM**

(71) Applicant information **SAMSUNG EhLEKTRONIKS KO., LTD. (KR)**
(72) Inventor information **KIM Dze-Voo (KR)**
(72) Inventor information **VOO Dzung-Khio (KR)**
(72) Inventor information **PARK Chang-Soo (KR)**
(72) Inventor information **AKhN Dzae-Min (KR)**
(73) Grantee (assignee) information **SAMSUNG EhLEKTRONIKS KO., LTD. (KR)**
(74) Attorney, agent, representative information **Emel'janov Evgenij Ivanovich**
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Mail address **129010, Moskva, ul. Bol'shaja Spasskaja, 25, str.3, OOO "Juridicheskaja firma Gorodisskij i
Partnery", E.I.Emel'janovu**

ABSTRACT

FIELD: mobile code-division multiple access communication systems. SUBSTANCE: device has pseudonoise (PN) code sequence generator for shaping PN_i and PN_q sequences; orthogonal code generator affording change of differential phase keying phase with intervals of at least two code items; and generator shaping extending codes C_i and C_q by mixing up (221, 223, 224) C_i and C_q code sequences with first and second orthogonal codes so that current phase of extending codes PN_i and PN_q changes in turn state of quadrature phase keying and differential phase keying with respect to preceding phase of extending codes C_i and C_q . EFFECT: reduced maximal-to-medium power ratio without impairing bit error rate characteristic. 27 cl, 22 dwg